

Claims

- [1] A vacuum fixer, which includes a hat-shaped pressing plate (10) made of rigid synthetic resin, a disk-type suction plate (20) made of soft synthetic resin and covered with the pressing plate (10), a screw shaft (30) mounted on the upper end of the center of the suction plate (20) and perforating the center of the pressing plate (10), and a screw tightening member (40) coupled to a protruding front end of the screw shaft (30),
wherein the pressing plate (10) includes a vacuum wall (11) formed at the edge thereof in such a manner as to protrude outwardly from the bottom surface thereof toward an adhered surface (80), the vacuum wall being made of gel-type polyurethane which is 150 ~ 250 pcs in viscosity and having an inclined compression surface (12) directing to the center of the pressing plate (10), and a co-centric circular saw-toothed type contact protrusion (13) formed on the inner surface of the pressing plate (10) in such a manner as to be positioned at the inner portion than the vacuum wall (11),
wherein the suction plate (20) has a diameter smaller than that of the vacuum wall (11) and includes a central part (21), an inclined part (22) and a circumferential part (23), the circumferential part (23) having an inclined lift surface (24) formed on the peripheral edge thereof and overlapped with the inclined compression surface (12) of the pressing plate (10), the inclined lift surface (24) having a gradually narrowed upper portion and a gradually widened lower portion, and
wherein the screw tightening member (40) has a hanger (41) formed on the upper end thereof.
- [2] The vacuum fixer according to claim 1, wherein the vacuum wall (11) is made of polyurethane where diol compound having a molecular weight of 4,000 ~ 6,000 is mixed with methylene-diisocyanate in the ratio of 1 : 8 or 12.
- [3] The vacuum fixer according to claim 1, wherein the vacuum wall (11) is in the form of a right-angled triangle where the ratio of the height to the base line is 1 : 1.5 to 1.8.
- [4] The vacuum fixer according to claim 1, wherein the central part (21) of the suction plate (20) is four or five times thicker than the circumferential part (23).
- [5] A vacuum fixer, which includes a hat-shaped pressing plate (10) made of rigid synthetic resin, a disk-type suction plate (20) made of soft synthetic resin and

covered with the pressing plate (10), a screw shaft (30) mounted on the upper end of the center of the suction plate (20) and perforating the center of the pressing plate (10), and a screw tightening member (40) coupled to a protruding front end of the screw shaft (30),

wherein the pressing plate (10) includes a vacuum wall (11) formed at the edge thereof in such a manner as to protrude outwardly from the bottom surface thereof toward an adhered surface (80), the vacuum wall being made of gel-type polyurethane which is 150 ~ 250 pcs in viscosity and having an inclined compression surface (12) directing to the center of the pressing plate (10), and a co-centric circular saw-toothed type contact protrusion (13) formed on the inner surface of the pressing plate (10) in such a manner as to be positioned at the inner portion than the vacuum wall (11),

wherein the suction plate (20) has a diameter smaller than that of the vacuum wall (11) and includes a central part (21), an inclined part (22) and a circumferential part (23), the circumferential part (23) having an inclined lift surface (24) formed on the peripheral edge thereof and overlapped with the inclined compression surface (12) of the pressing plate (10), the inclined lift surface (24) having a gradually narrowed upper portion and a gradually widened lower portion, and

wherein the screw tightening member (40) has a grip formed on the upper end thereof.